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### PATENT COOPERATION TREATY

## **PCT**

REC'D 17 NOV 2003

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

10/506479

Applicant's or agent's file reference	See Notification of Transmittal of International		on of Transmittal of International				
PCT MS0007Y			amination Report (Form PCT/IPEA/416)				
International application No.	International filing date (day/n	nonth/year)	Priority date (day/month/year)				
PCT/US03/07074	07 March 2003 (07.03.2003)		12 March 2003 (12.03.2003)				
International Patent Classification (IPC)	International Patent Classification (IPC) or national classification and IPC						
IPC(7): A61K 31/4439; C07D 401/12 an	d US Cl.: 546/268.4; 514/340						
Applicant							
MERCK & CO., INC							
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.							
2. This REPORT consists of	a total of <u>3</u> sheets, including	this cover sneet.					
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
These annexes consist of a	total of Sheets.		·				
<ol><li>This report contains indica</li></ol>	tions relating to the followin	g items:					
I Basis of the repo	ort						
II Priority	-						
III Non-establishme	ent of report with regard to n	ovelty, inventive	step and industrial applicability				
IV Lack of unity of	invention						
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
VI Certain documents cited							
VII Certain defects							
Date of submission of the demand		Date of completion of this report					
01 October 2003 (10.01.2003)		29 October 2003 (29.10.2003)					
Name and mailing address of the IPEA/	US Au	therized officer	7 22 11 1				
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		allono /6	sell-Harrishn				
P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230		lephone No. 703.					

Form PCT/IPEA/409 (cover sheet)(July 1998)



#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application	No.	
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PCT/US03/07074

I.	Basi	s of the report					
1.	With	regard to the elements of the international application:*					
	$\boxtimes$	the international application as originally filed.					
	$\boxtimes$	the description:					
		pages 1-125 as originally filed					
		pages NONE , filed with the demand , filed with the letter of .					
	$\square$						
		the claims: pages 126-168 , as originally filed					
		pages NONE, as amended (together with any statement) under Article 19					
		pages NONE, filed with the demand					
		pages NONE , filed with the letter of					
		the drawings:					
		pages NONE , as originally filed					
		pages NONE , filed with the demand , filed with the letter of .					
	Ш	the sequence listing part of the description: pages NONE , as originally filed					
		pages NONE , filed with the demand					
		pages NONE , filed with the letter of					
2.	With	regard to the language, all the elements marked above were available or furnished to this Authority in the					
	langu	uage in which the international application was filed, unless otherwise indicated under this item.  e elements were available or furnished to this Authority in the following language which is:					
	T1105	, and					
	H	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).					
		the language of publication of the international application (under Rule 48.3(b)).					
		the language of the translation furnished for the purposes of international preliminary examination(under Rules 55.2 and/or 55.3).					
3.	With inter	n regard to any nucleotide and/or amino acid sequence disclosed in the international application, the national preliminary examination was carried out on the basis of the sequence listing:					
		contained in the international application in printed form.					
		filed together with the international application in computer readable form.					
		furnished subsequently to this Authority in written form.					
		furnished subsequently to this Authority in computer readable form.					
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.					
4.		The amendments have resulted in the cancellation of:					
		the description, pages <u>NONE</u>					
		the claims, Nos. NONE					
		the drawings, sheets/fig NONE					
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**					
* 1	* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in						
this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).  ** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.							
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International application No. PCT/US03/07074

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

v.	ustrial applicability;			
1.	STATEMENT			
	Novelty (N)	Claims	1-37	YES
	• • • • • • • • • • • • • • • • • • • •	Claims	NONE	NO
	Inventive Step (IS)	Claims	1-37	YES
	• • •	Claims	NONE	NO
	Industrial Applicability (IA)	Claims	1-37	YES
		Claims	NONE	NO
				<u> </u>

#### 2. CITATIONS AND EXPLANATIONS

Claims 1-37 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the instant claimed tri-aryl compounds, consisting of a central tetrazole moiety substituted by at least one heteroaryl moiety and a second aryl or heteroaryl moiety. The closest art of record, the CAS listing of the Kitaeva et al journal article, teaches similar tri-aryl compounds, but does not disclose the specific tetrazole-aryl compounds as instantly claimed.

Claims 1-37 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made in the pharmaceutical industry and has utility as glutamate receptor modulators, useful for treating anxiety, depression, psychosis, etc.

Form PCT/IPEA/409 (Box V) (July 1998)